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Set Items Description
S1 321178 S ((CELLPHONE? ? OR CELL()PHONE? ? OR (CELLULAR OR PORTABLE OR MOBILE)(1W)(TELEPHON?? OR PHONE? ? OR COMMUNICAT? OR TELECOM?) OR WIRELESS(1W)(TELEPHON?? OR PHONE? ?) OR SMARTPHONE? ? OR SMART()(PHONE? ? OR TELEPHONE? ?) OR COMMUNICATOR? ?) OR (MOBILE OR PORTABLE OR WIRELESS OR HANDHELD OR HAND()HELD OR TABLET)(1W)(CLIENT? ? OR PC OR PCS OR COMPUTER? ? OR DEVICE? ? OR UNIT? ? OR APPARATUS?? OR ORGANIZER? ? OR ORGANISER? ? OR TERMINAL? ? OR APPLIANCE? ? OR NODE? ? OR RECEIVER? ? OR STATION? ?))
S2 8765 S (((CHANG? OR SWITCH? OR VARY?)(3N)(ATTRIBUTE? ? OR FLAG? ? OR INDICAT? OR PARAMETER? ? OR VARIABLE? ? OR VALUE? ? OR INPUT? ? OR FEATURE? ? OR CHARACTERISTIC? ?)) OR (SEE OR SEEN OR SEEING OR VIEW? OR LOOK? OR OPEN? ? OR WATCH? OR DISPLAY? OR READ?))(5N)(ONCE OR ONE()TIME OR ONETIME OR ONCE()OVER)
S3 206329 S (PIN OR PERSONAL()IDENTIFICATION()NUMBER? ? OR PASSWORD? ? OR PASSCODE? ? OR PASSPHRASE? ? OR (PASS OR SECRET)()(WORD? ? OR CODE? ? OR PHRASE? ?) OR CODEWORD? ? OR CODE()WORD? ? OR SECRET? ? OR CREDENTIAL? ?)
S4 3962421 S (LOCK? OR BLOCK? OR PROTECT? OR LATCH? OR UNAUTHORI? OR RESTRICT?)
S5 19 S S2 AND S3 AND S4
S6 1 S S5(100N)S1
S7 15669562 S (FILE? ? OR RECORD? ? OR MESSAGE? ? OR MSG? ? OR AUDIO? ? OR VIDEO? ? OR DOCUMENT? ? OR TEXT??? OR MESSAGE? ? OR MAIL OR EMAIL OR DATA OR INFORMATION OR CONTENT? ? OR OBJECT? ?)
S8 1 S S5 AND S1

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Subject summary

? t /5,k/all
8/5,K/1 (Item 1 from file: 2) Links
INSPEC

10945453
Title: Secure data sharing in mobile environments
Author Matsunaka, T.; Warabino, T.; Kishi, Y.
Author Affiliation: KDDI R&D Labs. Inc., Saitama, Japan
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Language: English Document Type: Conference Paper (PA)
Treatment: Practical (P)
Abstract: This paper proposes an approach for secure data sharing on mobile terminals with members of a particular group. To avoid the data being compromised due to loss or theft, this approach prevents data leakage, while allowing the correct members to recover the data to a new mobile terminal thanks to cooperation between a mobile terminal and a network server. The fundamental concept used to achieve data security involves applying data encryption and secret sharing of the encryption key. In addition, this approach newly introduces a key encapsulation mechanism (KEM) and threshold cryptography. The approach also combines the use of a data protection approach, based on a secret sharing scheme, in order to achieve an efficient data reading process. Once one of the members reads the data, he/she need not use threshold cryptography to reconstruct the encrypted key, but instead uses a secret sharing scheme. This paper confirms the potential of this approach via the prototype implementation onto a mobile phone. (15 Refs)
Subfile: B C
Descriptors: cryptography; data encapsulation; mobile computing; mobile radio
Identifiers: secure data sharing; mobile environment; data leakage prevention; mobile terminal; network server; data encryption key encapsulation mechanism; secret sharing scheme; threshold cryptography; data protection approach; data reading process; mobile phone
Class Codes: B6250F (Mobile radio systems); B6120D (Cryptography); C6150N (Distributed systems software); C6130S (Data security)

Abstract: This paper proposes an approach for secure data sharing on mobile terminals with members of a particular group. To avoid the data being compromised due to loss... ...prevents data leakage, while allowing the correct members to recover the data to a new mobile terminal thanks to cooperation between a mobile terminal and a network server. The fundamental concept used to achieve data security involves applying data encryption and secret sharing of the encryption key. In addition, this approach newly introduces a key encapsulation mechanism (KEM) and threshold cryptography. The approach also combines the use of a data protection approach, based on a secret sharing scheme, in order to achieve an efficient data reading process. Once one of the members reads the data, he/she need not use threshold cryptography to reconstruct the encrypted key, but instead uses a secret sharing scheme. This paper confirms the potential of this approach via the prototype implementation onto a mobile phone .
Identifiers: ...mobile terminal; ... ...secret sharing scheme... ...data protection approach... ...mobile phone
Astronomical Objects:

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